

## NEW UNITED STATES UTILITY PATENT APPLICATION TRANSMITTAL

Atty. Docket No.: 4231/2042

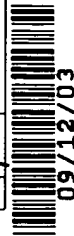
**CERTIFICATE OF MAILING UNDER 37 CFR 1.10**

I hereby certify that the paper (and any paper or fee referred to as being enclosed) is being deposited with the United States Postal Service using Express Mail to Addressee Service, under 37 C.F.R. Section 1.10, **Express Mail Label No. EV 242753262 US** on this date, **September 12, 2003**, postage prepaid, in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathleen M. Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

22386 U.S. PTO  
10/661242

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Enclosed herewith is a new patent application of:**

First Named Inventor (or application identifier): Liew, et. al.

Title of Invention: Identification of Sequences Particularly Useful for the Diagnosis and Identification of Therapeutic Targets for Osteoarthritis

Type:

- ☒  
☐  
☐  
☐

New

Continuation of:

Continuation-in-Part of:

Divisional of:

which is hereby incorporated by reference in its entirety into the application filed herewith;

**and includes the following papers:**

1. ☒ Specification 119 pages (including specification, claims, abstract)/ 60 claims (21 independent)
2. ☒ Declaration/Power of Attorney is:  
☐ Executed ☐ Unexecuted ☐ Executed copy from Parent Application  
☒ NOT included, but deferred under 37 C.F.R. § 1.53(f).
3. ☒ 915 Distinct sheets of ☐ Formal ☒ Informal Drawings
4. ☒ Application Data Sheet
5. ☐ Preliminary Amendment.
6. ☐ Information Disclosure Statement  
☐ Form 1449 ☐ A copy of each cited prior art reference (as necessary)
7. ☐ Assignment with Recordation Cover Sheet.
8. ☒ Priority is hereby claimed under 35 U.S.C. § 119 based upon the following application(s):

Country	Application Number	Date of Filing (day, month, year)
US	60/410,180	September 12, 2002

9. ☐ Priority is hereby claimed under 35 U.S.C. § 120 based upon the following application(s):

Application Number	Date of Filing (day, month, year)

10. ☐ Priority is hereby claimed under 35 U.S.C. § 121 based upon the following application(s):

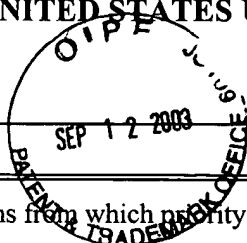
Application Number	Date of Filing (day, month, year)

09/12/03

168055U.S. PTO

## NEW UNITED STATES UTILITY PATENT APPLICATION TRANSMITTAL

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The above applications from which priority is claimed are hereby incorporated in their entirety into the application filed herewith.

11. ☐ Priority document(s).
12. ☐ Microfiche Computer Program (Appendix).
13. ☐ Nucleotide and/or Amino Acid Sequence Submission.  
☐ Computer Readable Copy.  
☐ Paper Copy (identical to computer copy).  
☐ Statement verifying identity of above copies.
14. ☐ Request for Non-Publication and Certification under 35 USC 122 (b)(2)(B)(i)
15. ☒ Statement of Small Entity Status, Pursuant to 37 C.F.R. §1.27.
16. Calculation of Fees:

FEES FOR	TOTAL CLAIMS	EXCESS CLAIMS	FEE	AMOUNT DUE
Basic Filing Fee (37 C.F.R. § 1.16(a))				\$750.00
Total Claims in <b>Excess of 20</b> (37 C.F.R. § 1.16(c))	<b>60</b>	<b>40</b>	\$18.00	720.00
Independent Claims in <b>Excess of 3</b> (37 C.F.R. § 1.16(b))	<b>21</b>	<b>18</b>	\$84.00	1,512.00
Multiple Dependent Claims (37 C.F.R. § 1.16(d))	YES		\$280.00	280.00
Subtotal - Filing Fee Due				3,262.00
Reduction by 50%, if Small Entity (37 C.F.R. §§ 1.9, 1.27, 1.28)	MULTIPLY BY 0.50			1,631.00
<b>TOTAL FILING FEE DUE</b>				<b>\$1,631.00</b>
Assignment Recordation Fee (if applicable) (37 C.F.R. § 1.21(h))	0		\$40.00	
<b>GRAND TOTAL DUE</b>				<b>\$1,631.00</b>

17. PAYMENT is:  
☒ included in the amount of \$1,475.00 by our enclosed check. The Commissioner is hereby authorized to charge any deficiencies in the fees to Deposit Account 16-0085, Ref. 4231/2042.  
☐ not included, but deferred under 37 C.F.R. § 1.53(f).

18. All correspondence for the attached application should be directed to:

**Kathleen M. Williams**  
**Customer Number 29933**  
 111 Huntington Avenue  
 Boston, MA 02199-7613

19. Other: \_\_\_\_\_

Respectfully submitted,

Date: September 12, 2003

By: \_\_\_\_\_

Name: Kathleen M. Williams  
 Registration No.: 34,380



Atty. Docket No.: 4231/2042

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Liew, et. al.  
Serial No.: Not Yet Assigned  
Filed: September 12, 2003  
Entitled: Identification of Sequences Particularly  
Useful for the Diagnosis and Identification of  
Therapeutic Targets for Osteoarthritis

**CERTIFICATE OF MAILING UNDER 37 CFR 1.10**

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Kathleen M. Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

**Mail Stop Patent Application**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**TRANSMITTAL LETTER**

Enclosed for filing in the above-identified patent application, please find the following documents:

1. New Patent Application Transmittal;
2. Patent Application, (119 pages);
3. Paper Copy of Sequence Listing;
4. Sequence Listing in Computer Readable Form;
5. Nine Hundred-Fifteen (915) sheets of informal drawings of Figs 1-7b;
6. Application Data Sheet;
7. Check in the amount of \$1,475.00 for the requisite filing fee;
8. Statement Under 37 C.F.R. §1.821 (f) and (g); and
9. Return Post Card.

Pursuant to 37 C.F.R. § 1.27, Applicant claims small entity status.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference No. 4231/2042. A duplicate of this transmittal letter is enclosed for this purpose.

Date: September 12, 2003

Respectfully submitted,

*Kathleen Williams*

Name: Kathleen M. Williams  
Registration No.: 34,380  
Customer No.: 29933  
Palmer & Dodge LLP  
111 Huntington Avenue  
Boston, MA 02199-7613  
Tel: 617-239-0100